Owner Manual

NEW STYLUS ™

Split System, 1-5 Tons
Convertible Type
MCX Series 50/60 Hz

50 Hz Models
Cooling Only
MCX 512 GB
MCX 518 GB
MCX 524 GB
MCX 530 GB
MCX 536 GB
MCX 042 GB
MCX 048 GB
MCX 060 GB

60 Hz Models
Cooling Only
MCX 512 G1
MCX 518 G1
MCX 524 G1
MCX 530 G1
MCX 536 G1
MCX 042 G1
MCX 048 G1
MCX 060 G1

July 2007 **MS-SVU0013-EN**

General Information

General Information

Congratulations on your choice of a Trane mini-split system. These systems have been carefully designed and manufactured under strict **Trane Worldwide Quality Standards** to provide you with years of comfortable, convenient cooling or heating/cooling with a minimum of service.

This Owner Manual is given as a guide to start-up, operation and periodic maintenance by the user of MCX split system. It does not contain the full service procedures necessary for the continued successful operation of this equipment. The services of a qualified service technician should be employed, through the maintenance contract with a reputable service company.

Read it completely before doing anything with your air conditioning system.

About this Manual

Cautions appear at appropriate places in this Instruction Manual. Your personal safety and the proper operation of this machine require that you follow them carefully.
The Trane Company assumes no liability for the inappropriate usage of the unit.

About the Unit

These MCX units are assembled, pressure tested, dehydrated, charged and run tested before shipment.
The information contained in this manual applies to MCX units are designed to operate in cooling mode only and in cooling or heating modes.

Trane MCX series of mini-split systems offer three styles of installation: floor, low wall and under ceiling with both LCD wireless remote control or wired control. Trane MCX series provide flexibility and savings.
Note: For model MCX 042, MCX 048 and MCX 060, there are only two styles of installation: under ceiling and low wall.

Reception

On arrival, inspect the unit before signing the delivery note. Specify any damage of the unit on the delivery note, and send a registered letter of protest to the last carrier of the goods within 72 hours of delivery. Notify the dealer at the same time.

The unit should be totally inspected within 7 days of delivery. If any concealed damage is discovered, send a registered letter of protest to the carrier within 7 days of delivery and notify the dealer.

Warning

Warnings are provided at appropriate places in this manual to indicate to installers, operators and service personnel of potentially hazardous situations which, if not avoided, COULD result in death or serious injury.

Caution

Cautions are provided at appropriate places in this manual to indicate to installers, operators, and service personnel of potentially hazardous situations which, if not avoided, MAY result in minor or moderate injury or malfunction of the unit.

Warranty

Warranty is based on the general terms and conditions by country. The warranty is void if the equipment is modified or repaired without the written approval of The Trane Company, if the operating limits are exceeded or if the control system or the electrical wiring is modified.

Damage due to misusage, lack of maintenance or failure to comply with the manufacturer's instructions, is not covered by the warranty obligation.
If the user does not conform to the rules described in Owner Manual, it may entail cancellation of warranty and liabilities by The Trane Company.

Important

These instructions do not cover all variations in systems, nor do they provide for every possible contingency to be met.
Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to your authorized Trane dealer.

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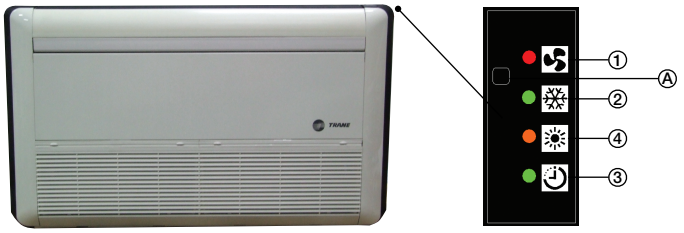
Contents

General Information	2
Control Operation	4
Wireless Remote Control	5
Digital Wired Control	9
System Operation	12
Safety Precautions	13
Maintenance	14
Troubleshooting	15

MS-SVU0013-EN.p65 3 20/7/2007, 11:51AM

Control Operation

Infrared Remote Control Unit Display and One-touch Control Switch



Display Panel

Four lamps on the unit show operating status.

1. **FAN Lamp**
   This lamp lights when the fan is operating.

2. **COOLING Lamp**
   This lamp lights when the unit is in COOL or DRY mode of operation.

3. **TIMER Lamp**
   This lamp lights when the system is being controlled by the timer.

4. **Compressor Lamp**
   This lamp lights when compressor is operated.

One Touch Control Switch (A)
This button is used for adjusting operation without remote control unit.

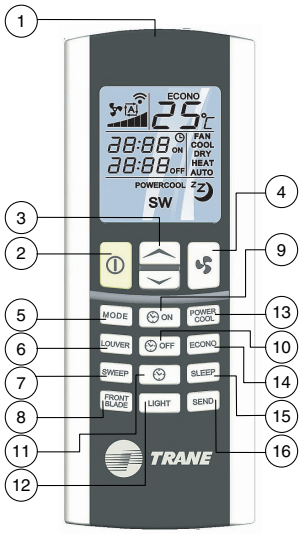
MS-SVU0013-EN.p65 4 20/7/2007, 11:51AM

Wireless Remote Control

Infrared Remote Control

Name and function of buttons

1. **Infrared Signal Transmitter**
   Transmits the signal to indoor unit.
2. **POWER Button**
   Press this button to start unit operation. Press this button again to stop unit operation.
3. **Temperature Setting Button**
   TEMP ∧ : Press this button to increase the set temperature.
   TEMP ∨ : Press this button to decrease the set temperature.
4. **FAN SPEED Button**
   Press this button to select fan speed.
5. **MODE Button**
   Press this button to select system operation mode. In cooling only system, a mode is selected in sequence as FAN, COOL, DRY, and back to FAN.
6. **LOUVER Button**
   Press this button to adjust blade direction.
7. **SWEEP Button**
   Press this button to activate or inactivate sweep motor to distribute air flow.
8. **FRONT BLADE Button**
   Press this button to activate or inactivate front blade function.
9. **ON TIMER Button**
   Press this button to set the on timer of the unit operation.
10. **OFF TIMER Button**
    Press this button to set the off timer of the unit operation.
11. **CLOCK Button**
    Press this button to set the clock to the present time or see the present time after ON or OFF TIMER was set.



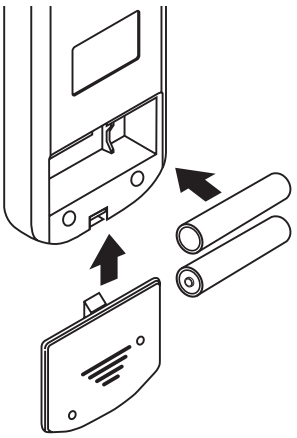
12. **LIGHT Button**
    Press this button to turn on the LCD light.
13. **POWERCOOL Button**
    Press this button to accelerate capacity up.
14. **ECONO Button**
    Press this button to save energy.
15. **SLEEP Button**
    Press this button to control temperature while sleeping and press this button again to cancel.
16. **SEND Button**
    Press this button to confirm the operation of the unit according to the LCD display or press and hold for 5 seconds to toggle temperature unit between Celsius and Fahrenheit.

Installation of Batteries

1. Slide the back cover of the remote control down to take it off.
2. Insert two dry batteries into the slot. Be sure that the + and – directions are correct.
3. Fix the back cover to the remote control as before.

Attentions

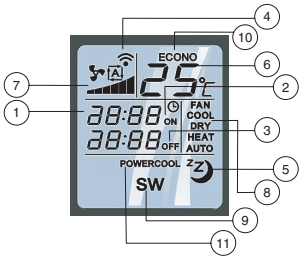
- Batteries can be used approximately for one year under normal conditions.
- Always replace an identical type of two batteries at the same time.
- Do not use manganese dry batteries since they may cause a malfunction.
- Do not use rechargeable (Ni-Cd) batteries, because such batteries may differ from standard dry cell batteries in shapes, dimensions, or performance.
- Take out all batteries if you are not going to use the air-conditioner for a long period of time.



MS-SVU0013-EN.p65 5 20/7/2007, 11:51AM

Wireless Remote Control

Indicators on Infrared Remote Control



1. **CLOCK**
   Displays present time.
2. **ON TIMER**
   Display ON TIMER when ON TIMER is set.
3. **OFF TIMER**
   Display OFF TIMER when OFF TIMER is set.
4. **Transmission Indicator**
   The transmission indicator lights when remote control transmits signal to the indoor unit.
5. **SLEEP Mode**
   Display sleep symbol after activating SLEEP mode.
6. **Set Temperature**
   Displays the set temperature (15°C to 30°C) when FAN or POWERCOOL mode is selected. The set temperature will be disappeared until FAN or POWERCOOL mode is cancelled or complete.
7. **FAN Speed**
   Display the selected fan speed level: auto, low, medium, or high.
8. **Operation Mode**
   Displays the current operation mode: FAN, COOL, or DRY in cooling only system.
9. **SWEEP Function**
   Displays “SW” when sweep motor is activated.
10. **ECONO Mode**
    Displays “ECONO” when ECONO mode is activated.
11. **POWERCOOL Mode**
    Displays “POWERCOOL” when POWERCOOL mode is activated.

Operation Mode

FAN Mode

- Press Mode button to select the operation mode.
- “FAN” will be shown on the display when FAN mode is selected.
- Press FAN SPEED button to select the desired fan speed level and the display will show.

Auto –> Low –> Medium –> High

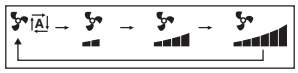
Auto, Low, Medium, and High respectively

Note:

- In FAN mode, the LCD display will not show set temperature and cannot adjust set temperature, SLEEP, ECONO, and POWERCOOL mode.

COOL Mode

- Press Mode button to select the operation mode.
- “COOL” will be shown on the display when COOL mode is selected.
- Press either ∧ or ∨ button to set the desired temperature between 15°C to 30°C.
- Press FAN SPEED button to select the desired fan speed level and the display will show.



Auto –> Low –> Medium –> High

Auto, Low, Medium, and High respectively

DRY Mode

- Press Mode button to select the operation mode.
- “DRY” will be shown on the display when DRY mode is selected.
- Press either ∧ or ∨ button to set the desired temperature between 15°C to 30°C.
- Press FAN SPEED button to select the desired fan speed level and the display will show.

Auto –> Low –> Medium –> High

Auto, Low, Medium, and High respectively

Note:

- In DRY mode, if the compressor stops working, fan motor and SWEEP function will be stopped; fan motor and SWEEP function will operate when compressor operates.
- SWEEP function will be cancelled whenever LOUVER function is selected.
- ECONO mode cannot be activated during DRY mode operation.

CLOCK Setting

- Press CLOCK button to set clock and ⏲ will be shown on the display with blinking hour number.
- Press either ∧ or ∨ button to set the clock to the present hour.
- Press CLOCK button again to confirm hour setting and minute number will be blinking.
- Press either ∧ or ∨ button to set the clock to the present minute.
- Press CLOCK button again to confirm minute setting; hour and minute number will stop blinking and the set time will be shown on the display.

Note:

- If there are no other buttons pressed within 15 seconds, clock setting will be cancelled.
- User can confirm CLOCK setting during CLOCK setting process by pressing SEND button.

MS-SVU0013-EN.p65 6 20/7/2007, 11:51AM

Wireless Remote Control

Timer Operation

Once you select the timer operation, the settings are saved in the remote control. Thereafter, the air-conditioner will start operating under the same conditions when you simply push the POWER button on the remote control.

ON TIMER Setting

You can set ON TIMER to start the unit automatically at any desired time up to 24 hours as real time.

- Press ON TIMER button. ON symbol will be shown on the display with blinking hour number.
- Press either ∧ or ∨ button to set the desired hour.
- Press ON TIMER button again to confirm hour setting and minute number will be blinking.
- Press either ∧ or ∨ button to set the desired minute.
- Press ON TIMER button again to confirm minute setting. Hour and minute number will stop blinking. The unit is now standby for starting air-conditioner automatically at the set time.
- To cancel ON TIMER, press ON TIMER button again.

Note:

- The user can confirm ON TIMER during ON TIMER setting process by pressing SEND button.
- If there are no other buttons pressed within 15 seconds, ON TIMER will be cancelled, and the LCD display will return to show clock.
- After pressing ON TIMER button, the LCD display will show the last on timer set by user with blinking hour number.
- When ON/OFF TIMER is set, the present time is not displayed.
- Press CLOCK button to see present time after ON/OFF TIMER was set. The LCD display will show present time about 15 seconds and return to show ON/OFF TIMER. If user press CLOCK button during the 15 seconds display of present time, the operation will be CLOCK setting and return to ON/OFF TIMER.
- In case of power failure, ON TIMER will be automatically cancelled as there is no electricity in the air-conditioner; however, the set time on the remote control is still displayed due to batteries. The user has to cancel and set ON TIMER again or press SEND button to reactivate ON TIMER when the electricity is back to normal conditions.

OFF TIMER Setting

You can set OFF TIMER to stop the unit automatically at any desired time up to 24 hours as real time.

- Press OFF TIMER button. OFF symbol will be shown on the display with blinking hour number.
- Press either ∧ or ∨ button to set the desired hour.
- Press OFF TIMER button again to confirm hour setting and minute number will be blinking.
- Press either ∧ or ∨ button to set the desired minute.
- Press OFF TIMER button again to confirm minute setting. Hour and minute number will stop blinking. The unit is now standby for stopping air-conditioner automatically at the set time.
- To cancel OFF TIMER, press OFF TIMER button again.

Note:

- The user can confirm OFF TIMER during OFF TIMER setting process by pressing SEND button.
- If there are no other buttons pressed within 15 seconds, OFF TIMER will be cancelled, and the LCD display will return to show clock.
- After pressing OFF TIMER button, the LCD display will show the last off timer set by user with blinking hour number.
- When ON/OFF TIMER is set, the present time is not displayed.
- Press CLOCK button to see present time after ON/OFF TIMER was set. The LCD display will show present time about 15 seconds and return to show ON/OFF TIMER. If user press CLOCK button during the 15 seconds display of present time, the operation will be CLOCK setting and return to ON/OFF TIMER.
- In case of power failure, OFF TIMER will be automatically cancelled as there is no electricity in the air-conditioner; however, the set time on the remote control is still displayed due to batteries. The user has to cancel and set OFF TIMER again or press SEND button to reactivate OFF TIMER when the electricity is back to normal conditions.

POWERCOOL Mode

POWERCOOL mode rapidly maximizes the cooling capacity in COOL or DRY mode. With this simply mode, the user can easily get the maximum cooling capacity and comfort.

- Press POWERCOOL button. “POWERCOOL” will be shown on the display.
- The air-conditioner will accelerate capacity up totally 20 minutes or until room temperature is lower than 18°C.
- When POWERCOOL mode completely operates or is cancelled, “POWERCOOL” will be disappeared from the display and return to the former settings before POWERCOOL mode.
- To cancel POWERCOOL mode, press POWERCOOL or MODE button again.

Note:

- The LCD display will not show fan speed and set temperature.
- Fan speed and set temperature cannot be changed while POWERCOOL mode is selected.
- In case of power failure, POWERCOOL mode will be automatically cancelled.

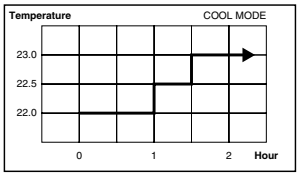
MS-SVU0013-EN.p65 7 20/7/2007, 11:52AM

Wireless Remote Control

SLEEP Mode

SLEEP mode automatically and gradually adjusts room temperature to provide great comfort during your rest.

- Press SLEEP button, ᶻZ will be shown on the display.
- After one hour operation of SLEEP mode, the unit will automatically raise set temperature by 0.5ºC.
- After one and half hour operation of SLEEP mode, the unit will automatically raise set temperature by 0.5ºC again and ᶻZ on the display will disappear.
- To cancel SLEEP mode, press SLEEP mode button again.



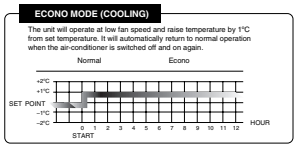
Note:

- Set temperature shown on the display still show the setting without 1°C added/reduced but it will plus/minus 1ºC in the memory.
- ᶻZ will disappear from the LCD display when SLEEP mode completely operates, after one and half hours, or is cancelled.
- In case of power failure, SLEEP mode will be automatically cancelled.

ECONO Mode

ECONO mode drastically saves energy with high efficient cooling capacity in COOL mode by reducing power consumption. With this simply mode, the user can easily get energy saving and comfort.

- Press ECONO button. “ECONO” will be shown on the display.
- The air-conditioner will operates at low fan speed and raise temperature by 1ºC from set temperature.
- To cancel ECONO mode, press ECONO or MODE button again.


ECONO MODE (COOLING)
The unit will operate at low fan speed and raise temperature by 1ºC from set temperature. It will automatically return to normal operation when the air-conditioner is switched off and on again.
Normal
Econo
+2ºC
+1ºC
SET POINT
–1ºC
–2ºC
0 1 2 3 4 5 6 7 8 9 10 11 12
HOUR
START

Note:

- ECONO mode operates only in COOL mode and automatically operates when air-conditioner is closed without exiting or canceling ECONO mode.
- Fan speed can not be changed while ECONO mode is selected.

SWEEP Function

SWEEP function swiftly distributes air flow and helps provide better air circulation in the room with comfortable cooling.

- Press SWEEP button, “SW” will be shown on the display.
- The air-conditioner will automatically sweep the supply air grille back and forth.
- To cancel SWEEP function, press SWEEP or LOUVER button again.

Note:

- The supply air grille will be fully closed when the unit is off.
- The supply air grille will be fully opened when the unit is on.
- The supply air grille will automatically stop sweeping when compressor stops operating and reactivate SWEEP function once compressor becomes operating.
- SWEEP function is available only from 12,000 to 36,000 Btu/h.

LOUVER Function

LOUVER function provides you 5 levels of air flow direction as your desire with comfortable cooling.

- Press LOUVER button to select the desired air flow direction.

Note:

- SWEEP function will be cancelled in case LOUVER is selected.
- LOUVER function is available only from 12,000 to 36,000 Btu/h.

FRONT BLADE Function

FRONT BLADE function offers you the optional supply air grille increasing air flow direction and circulation with comfortable cooling or heating.

- Press FRONT BLADE button to open or close front supply air grille.

Note:

- The front supply air grille will automatically open when air-conditioner is closed without closing FRONT BLADE function during the operation.
- FRONT BLADE function is available only from 12,000 to 36,000 Btu/h.

LIGHT Button

LIGHT button offers you the optional feature to lighten the LCD display at any time as you desire.

- Press LIGHT button to lighten the LCD display for 5 seconds.

Note:

- Whenever you press any button from 6.00 pm to 6.00 am, the LCD display will automatically be lightened.

SEND Button

SEND button offers you the optional feature to activate or confirm the operations shown on the LCD display.

- Press SEND button to activate or confirm the operations shown on the LCD display.

Note:

- Whenever you press any button from 6.00 pm to 6.00 am, the LCD display will automatically be lightened.

ºC/ºF Toggle

The optional feature offers you to change the temperature display from ºC to ºF or from ºF to ºC.

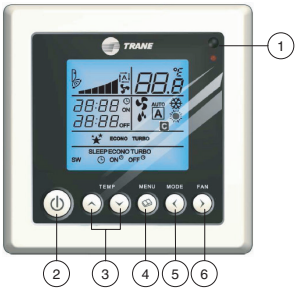
- Press and hold SEND button for 5 seconds to change temperature display.

MS-SVU0013-EN.p65 8 23/7/2007, 17:00PM

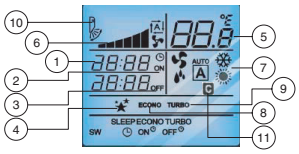
Digital Wired Control

Name and function of buttons

1. **Infrared Signal Receiver (optional)**
   Receives the signal from handheld remote control and transmits the signal to indoor unit.
2. **POWER Button**
   Press this button to start unit operation. Press this button again to stop unit operation.
3. **Temperature Setting Button**
   TEMP ∧ : Press this button to increase the set temperature.
   TEMP ∨ : Press this button to decrease the set temperature.
4. **MENU Button**
   Press this button to select modes or functions in the menu.
5. **MODE Button**
   Press this button to select system operation mode. In cooling only system, a mode is selected in sequence as FAN, COOL, DRY, and back to FAN.
6. **FAN SPEED Button**
   Press this button to select fan speed.



Indicators on Digital Wired Control

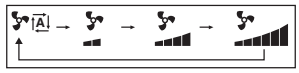


1. **CLOCK**
   Displays present time.
2. **ON TIMER**
   Display ON TIMER when ON TIMER is set.
3. **OFF TIMER**
   Display OFF TIMER when OFF TIMER is set.
4. **SLEEP Mode**
   Display sleep symbol after activating SLEEP mode.
5. **Room & Set Temperature**
   - Displays the room temperature. When FAN or TURBO mode is selected, the room temperature will be disappeared until FAN or TURBO mode is cancelled or complete.
   - Displays the set temperature (15°C to 30°C) when either ∧ or ∨ button is pressed.
6. **FAN Speed**
   Display the selected fan speed level: auto, low, medium, or high.
7. **Operation Mode**
   Displays the current operation mode: FAN, COOL, or DRY in cooling only system.
8. **ECONO Mode**
   Displays “ECONO” when ECONO mode is activated.
9. **TURBO Mode**
   Displays “TURBO” when TURBO mode is activated.
10. **SWEEP Function**
    Displays sweep symbol when sweep motor is activated.
11. **Compressor Status Indicator**
    Displays compressor status.

Operation Mode

FAN Mode

- Press Mode button to select the operation mode.
- will be shown on the display when FAN mode is selected.
- Press FAN SPEED button to select the desired fan speed level and the display will show.



Auto –> Low –> Medium –> High

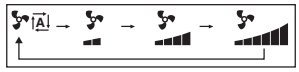
Auto, Low, Medium, and High respectively

Note:

- In FAN mode, the LCD display will not show set temperature and cannot adjust set temperature, SLEEP, ECONO, and TURBO mode.

COOL Mode

- Press Mode button to select the operation mode.
- will be shown on the display when COOL mode is selected.
- Press either ∧ or ∨ button to set the desired temperature between 15°C to 30°C.
- Press FAN SPEED button to select the desired fan speed level and the display will show.



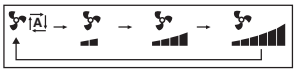
Auto –> Low –> Medium –> High

Auto, Low, Medium, and High respectively

MS-SVU0013-EN.p65 9 20/7/2007, 11:52AM

Digital Wired Control

DRY Mode
- Press Mode button to select the operation mode.
- will be shown on the display when DRY mode is selected.
- Press either ∧ or ∨ button to set the desired temperature between 15ºC to 30ºC.
- Press FAN SPEED button to select the desired fan speed level and the display will show.



Auto –> Low –> Medium –> High

Auto, Low, Medium, and High respectively

Note:
- In DRY mode, if the compressor stops working, fan motor and SWEEP function will be stopped; fan motor and SWEEP function will operate when compressor operates.
- ECONO mode can not be activated during DRY mode operation.

CLOCK Setting
- Press MENU button and select CLOCK setting by pressing either > or <.
- Press MENU button again to set clock and ◷ will be shown on the display with blinking hour number.
- Press either ∧ or ∨ button to set the clock to the present hour.
- Press MENU button again to confirm hour setting and minute number will be blinking.
- Press either ∧ or ∨ button to set the clock to the present minute.
- Press MENU button again to confirm minute setting; hour and minute number will stop blinking and the set time will be shown on the display.

Note:
- If there are no other buttons pressed within 15 seconds, clock setting will be cancelled.

Timer Operation
Once you select the timer operation, the settings are saved in the control. Thereafter, the air-conditioner will start operating under the same conditions when you simply push the POWER button on the control.

ON TIMER Setting
You can set ON TIMER to start the unit automatically at any desired time up to 24 hours as real time.
- Press MENU button and select ON TIMER setting by pressing either > or <.
- Press Menu button again to set ON TIMER and ON symbol will be shown on the display with blinking hour number.
- Press either ∧ or ∨ button to set the desired hour.
- Press MENU button again to confirm hour setting and minute number will be blinking.
- Press either ∧ or ∨ button to set the desired minute.
- Press MENU button again to confirm minute setting. Hour and minute number will stop blinking. The unit is now standby for starting air-conditioner automatically at the set time.
- To cancel ON TIMER, select ON TIMER setting and press MENU button again.

Note:
- If there are no other buttons pressed within 15 seconds, ON TIMER will be cancelled, and the LCD display will return to show clock.
- After selecting ON TIMER setting, the LCD display will show the last on timer set by user with blinking hour number.
- When ON/OFF TIMER is set, the present time is not displayed.
- In case of power failure, ON TIMER will be automatically cancelled as there is no electricity in the air-conditioner.

OFF TIMER Setting
You can set OFF TIMER to start the unit automatically at any desired time up to 24 hours as real time.
- Press MENU button and select OFF TIMER setting by pressing either > or <.
- Press Menu button again to set OFF TIMER and OFF symbol will be shown on the display with blinking hour number.
- Press either ∧ or ∨ button to set the desired hour.
- Press MENU button again to confirm hour setting and minute number will be blinking.
- Press either ∧ or ∨ button to set the desired minute.
- Press MENU button again to confirm minute setting. Hour and minute number will stop blinking. The unit is now standby for starting air-conditioner automatically at the set time.
- To cancel OFF TIMER, select OFF TIMER setting and press MENU button again.

Note:
- If there are no other buttons pressed within 15 seconds, OFF TIMER will be cancelled, and the LCD display will return to show clock.
- After selecting OFF TIMER setting, the LCD display will show the last off timer set by user with blinking hour number.
- When ON/OFF TIMER is set, the present time is not displayed.
- In case of power failure, OFF TIMER will be automatically cancelled as there is no electricity in the air-conditioner.

TURBO Mode
TURBO mode rapidly maximizes the cooling capacity in COOL or DRY mode. With this simply mode, the user can easily get the maximum cooling capacity and comfort.
- Press MENU button and select TURBO mode setting by pressing either > or <.
- The air-conditioner will accelerate capacity up totally 20 minutes or until room temperature is lower than 18ºC.

MS-SVU0013-EN.p65 10 20/7/2007, 11:52AM

- When TURBO mode completely operates or is cancelled, “TURBO” will be disappeared from the display and return to the former settings before TURBO mode.
- To cancel TURBO mode, either press MODE button or select TURBO mode and press MENU button again.

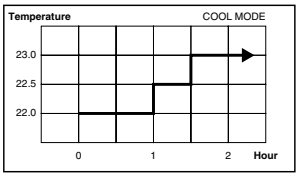
Note:

- The LCD display will not show fan speed and set temperature.
- Fan speed and set temperature cannot be changed while TURBO mode is selected.
- In case of power failure, TURBO mode will be automatically cancelled.

SLEEP Mode

SLEEP mode automatically and gradually adjusts room temperature to provide great comfort during your rest.

- Press MENU button and select SLEEP mode by pressing either > or <.
- Press Menu button again to confirm SLEEP mode. will be shown on the display.
- After one hour operation of SLEEP mode, the unit will automatically raise set temperature by 0.5ºC.
- After one and half hour operation of SLEEP mode, the unit will automatically raise set temperature by 0.5ºC again and on the display will disappear.
- To cancel SLEEP mode, either press MODE button or select SLEEP mode and press MENU button again.



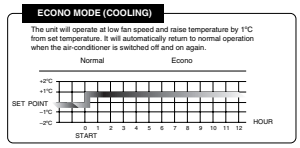
Note:

- Set temperature shown on the display still show the setting without 1ºC added/reduced but it will plus/minus 1ºC in the memory.
- will disappear from the LCD display when SLEEP mode completely operates, after one and half hours, or is cancelled.
- In case of power failure, SLEEP mode will be automatically cancelled.

ECONO Mode

ECONO mode drastically saves energy with high efficient cooling capacity in COOL mode by reducing power consumption. With this simply mode, the user can easily get energy saving and comfort.

- Press MENU button and select ECONO mode by pressing either > or <.
- Press MENU button again to confirm ECONO mode. “ECONO” will be shown on the display.
- The air-conditioner will operates at low fan speed and raise temperature by 1ºC from set temperature.
- To cancel ECONO mode, either press MODE button or select ECONO mode and press MENU button again.


ECONO MODE (COOLING)
The unit will operate at low fan speed and raise temperature by 1ºC from set temperature. It will automatically return to normal operation when the air-conditioner is switched off and on again.
Normal
Econo
+2ºC
+1ºC
SET POINT
-1ºC
-2ºC
0 1 2 3 4 5 6 7 8 9 10 11 12
HOUR
START

Note:

- ECONO mode operates only in COOL mode and automatically operates when air-conditioner is closed without exiting or canceling ECONO mode.
- Fan speed cannot be changed while ECONO mode is selected.

SWEEP Function

SWEEP function swiftly distributes air flow and helps provide better air circulation in the room with comfortable cooling or heating.

- Press MENU button and select SWEEP function by pressing either > or <.
- Press MENU button again to confirm SWEEP function. will be shown on the display.
- The air-conditioner will automatically sweep the supply air grille back and forth.
- To cancel SWEEP function, select SWEEP function and press MENU button again.

Note:

- The supply air grille will be fully closed when the unit is off.
- The supply air grille will be fully opened when the unit is on.
- The supply air grille will automatically stop sweeping when compressor stops operating and reactivate SWEEP function once compressor becomes operating.
- SWEEP function is available only from 12,000 to 36,000 Btu/h.

ºC/ºF Toggle

The optional feature offers you to change the temperature display from ºC to ºF or from ºF to ºC.

- Press and hold both ∧ and ∨ button for 5 seconds to change temperature display.

System Operation

System Features

1. **Watchdog**
   There is a circuit in the system to watch the operation of the microprocessor.
2. **Compressor Delay Protection**
   There is a time delay for restarting the compressor.
3. **Compressor Minimum on Time**
   Once the compressor starts, it will operate at least 24 seconds.
4. **Non-Volatile Memory (Auto Restart)**
   If there is a power interruption or failure and back to normal, the control will automatically resume its operation with the same setting parameters except those related to time.
5. **Freeze Function**
   To prevent the indoor coil freezing, this feature will stop compressor when the indoor coil temperature is below 0°C.
6. **Defrost Function**
   This feature will protect the system operating in heat mode under very low ambient temperature.
7. **Compressor Status Indicator**
   This feature is the basic detection of compressor status by showing **C** on the display while compressor is operating.

Error Code & Display

Error code	Description	LED blinking
Er : 01	Freeze protection	yes
Er : 02	Defrost function	yes
Er : 03	Compressor overload protection	yes
Er : 04	Anti overheat protection	yes
Er : 05	Low ambient protection	yes
Er : 10	Room sensor error	yes
Er : 11	Deice sensor error	yes
Er : 12	Freeze sensor error	yes

Operating Precautions

The air conditioner must be properly installed by a qualified installer in accordance with installation instructions.

Anti-Recycle Timer

- The control system has a built-in 3 minutes anti-recycle timer which helps to preserve the life of system components.
- Anti-recycle timer will operates as circumstances occur while the air conditioner is operating:
  - Temperature setting is adjusted back and forth.
  - ON/OFF switch is turned ON or OFF.
  - Room temperature reaches the set point.
  - Power failure.

Once one of the above conditions occurs, the anti-recycle timer will start preventing the outdoor unit operation for approximately 3 minutes.

Freeze Protection

The system is protected against low indoor coil temperatures. Under certain conditions, the LED indicating the protective function has been activated will blink, together with error code 01 shown on the display. System adjustment is not necessary.

Stop the air conditioner at once if any of the followings occurs:

- The power cord is too hot to be touched by hand.
- The insulation of the power cord is exposed at any point.
- The fuse is blown or circuit breaker trips frequently.
- Malfunction or abnormal situation of the air conditioning system occurs such as a burning smell.
- Do not inspect or service the air conditioner while it is operating. Turn off the power supply before doing any inspection or service work.
- The power cord should be kept away from furniture with sharp corners. It may cause fire or electric shock.
- When the air conditioner will not used for a long time, be sure to turn **OFF** the power supply.

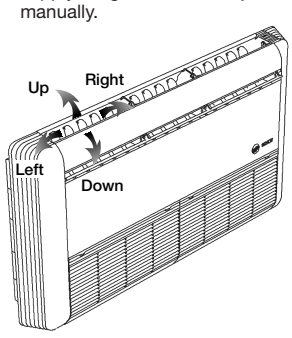
If you have any questions or problems with your air conditioning system, please consult your nearest **Trane** dealer.

Adjust Air Flow Direction

- The supply air grille may be adjusted **left**, **right**, **up** or **down** manually.
- Adjust the air flow direction properly, otherwise, it may cause discomfort and make the room temperature uneven.

Adjust Air Flow Direction (with sweep option)

- The sweep motor will sweep the supply air grille **upward** and **downward**.
- For **left** and **right** air flow, the supply air grille can be adjusted manually.



MS-SVU0013-EN.p65 12 20/7/2007, 11:52AM

Safety Precautions

To avoid electrical shock or fire and possible injury, the following points should be noted and strictly adhered to:

■ **Do not sit in the direct air path for long periods of time.**
Sitting in the direct air path of the air steam for long periods of time isn't good for your health. Pay special attention when sleeping, and when infants, senior citizens, and invalids are present in the room.

■ **Use only fuses of the proper amperage.**
Making shift replacement such as a piece of wire should never be used. Not only could the unit itself be damaged, but such action could be the cause of a major fire.

■ **Water should not be applied directly to the unit for cleaning purpose.**
Electrical shock may be resulted.

■ **Do not block or cover the return air grille or discharge grille.**
Decreased performance as well as inability to operate normally could be resulted.

■ **Avoid getting objects such as sticks, sand, or stones into the return air or discharge grilles.**
Since the fan revolves at high speed, it is very dangerous. Be especially careful with children.

■ **Be sure to always have the air filter properly installed when the unit is operated.**
Otherwise, dirt can get into the inner workings and cause damages.

■ **Do not use the air conditioner for preservation purposes.**
Do not use it for preserving precision instruments, foods, plants, animals, works of fine arts etc. performance or quality may deteriorate and animal or plant life may be shorter.

■ **Do not use flammable sprays near the air conditioner.**
Such action could be the cause of major fire.

■ **Be sure the power is disconnect before maintenance.**
Do not inspect or service the air conditioner while it is operating. Turn off the power supply before doing any inspection or service work.

■ **Be sure the power cord is kept away from furniture with sharp corners.**
Electric shock or fire may be resulted.

■ **When the air conditioner will not be used for a long time, be sure to turn off the power supply.**

If you have any questions or problems with your air conditioning system, please consult Trane dealer or The Trane Company.

MS-SVU0013-EN.p65 13 20/7/2007, 11:52AM

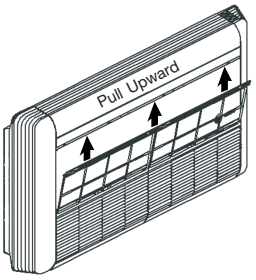
Maintenance

Regular Maintenance
Be sure to disconnect the power before inspection or maintenance of air conditioner.

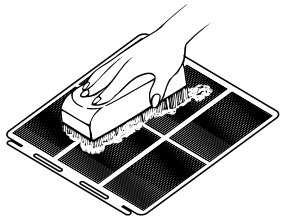
1. Cleaning the air filter
Air flow is reduced and cooling efficiency impaired if the filter is clogged. Be sure to clean the filter every two weeks during the cooling season.

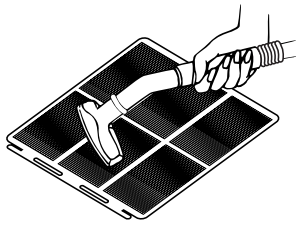
1.1 How to remove the air filters

- Remove each return air grille by pushing down and pulling forward.
- Remove each air filter frame from the return air grille.



1.2 How to clean the air filter
Wash away dust from the air filter with clean water or vacuum it with an electric vacuum cleaner.





Note: Once the air filter is washed, dry it completely before returning it to its original position.
After cleaning, be sure to return it to its original position.

Cautions

- Do not wash the air filter in water that is over 40ºC or it may shrink.
- Do not expose the air filter to fire.
- Do not expose the air filter to direct sunlight for a long time.
- Clean the air filter more frequently when the air is very dirty.

2. Cleaning the front panel
Do not pour water directly on the front panel to clean it. Dust or wipe it lightly with a soft cloth. If it is very dirty, use a soft cloth soaked in water or neutral detergent.

Cautions

- Do not use water over 50ºC to clean the front panel or it may become discolored.
- Do not use benzine, gasoline, thinner, polishing compound, machine oil, etc. when cleaning the front panel, or paint may peel off, or it may become deformed or damaged.

3. Maintenance before prolonged idle period

- Operate the fan for about half a day to dry the inside of the unit.
- Stop the air conditioner and disconnect the power by turning off the safety breaker.
- Clean the air filter and return it to its original position.
- Place the protective cover over the condensing unit.
- Outdoor unit internal components must be cleaned periodically.

MS-SVU0013-EN.p65 14 20/7/2007, 11:52AM

Troubleshooting

Before calling for service, please check the following.

The air conditioner does not operate at all:
- Check if the control ON/OFF switch is “OFF”. Turn the switch to ON.
- Check whether the fuse has been blown or circuit breaker thrown. Set the ON/OFF Control Switch to OFF, and turn on the circuit breaker or replace to a new fuse.
- Check whether the power supply is interrupted. Wait until the power is resupplied and then operate the air conditioner.

Cooling is insufficient:
- Check whether the air filter is clogged. Clean it.
- Check whether the thermostat setting is too high. Set the thermostat to lower temperature.
- Check whether windows or doors are opened. If opened, close it.
- Check whether there are sources of heat in the room, cooling is less effective.
- Check whether the return air grille or the supply air grille on the indoor unit and outdoor unit are blocked. If they are blocked, remove obstacles to make air passage clear.
- Check whether the fan speed is set at low. Set the fan switch from “LOW” to “MED” or “HIGH”.

MS-SVU0013-EN.p65 15 20/7/2007, 11:52AM

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For more information, contact your local district office

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